



# PFAS Detections Along West Princeton Avenue

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IAG Monthly Conference Call  
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# April-June 2021 Characterization Along West Princeton Avenue

- Goal was to confirm the western edge of the Current Firehouse PFOS/PFOA plume – verify where concentrations drop below 100 ng/L
- Six temporary wells have been installed
- Kept detecting PFOS >100 ng/L as we moved west



April



May



June

GP-94

PFOS: 485 ng/L

PFOA: 16 ng/L

GP-93

PFOS: 104 ng/L

PFOA: 7 ng/L

GP-96

PFOS: 774 ng/L

PFOA: 20 ng/L

GP-95

PFOS: 1,970 ng/L

PFOA: 32 ng/L

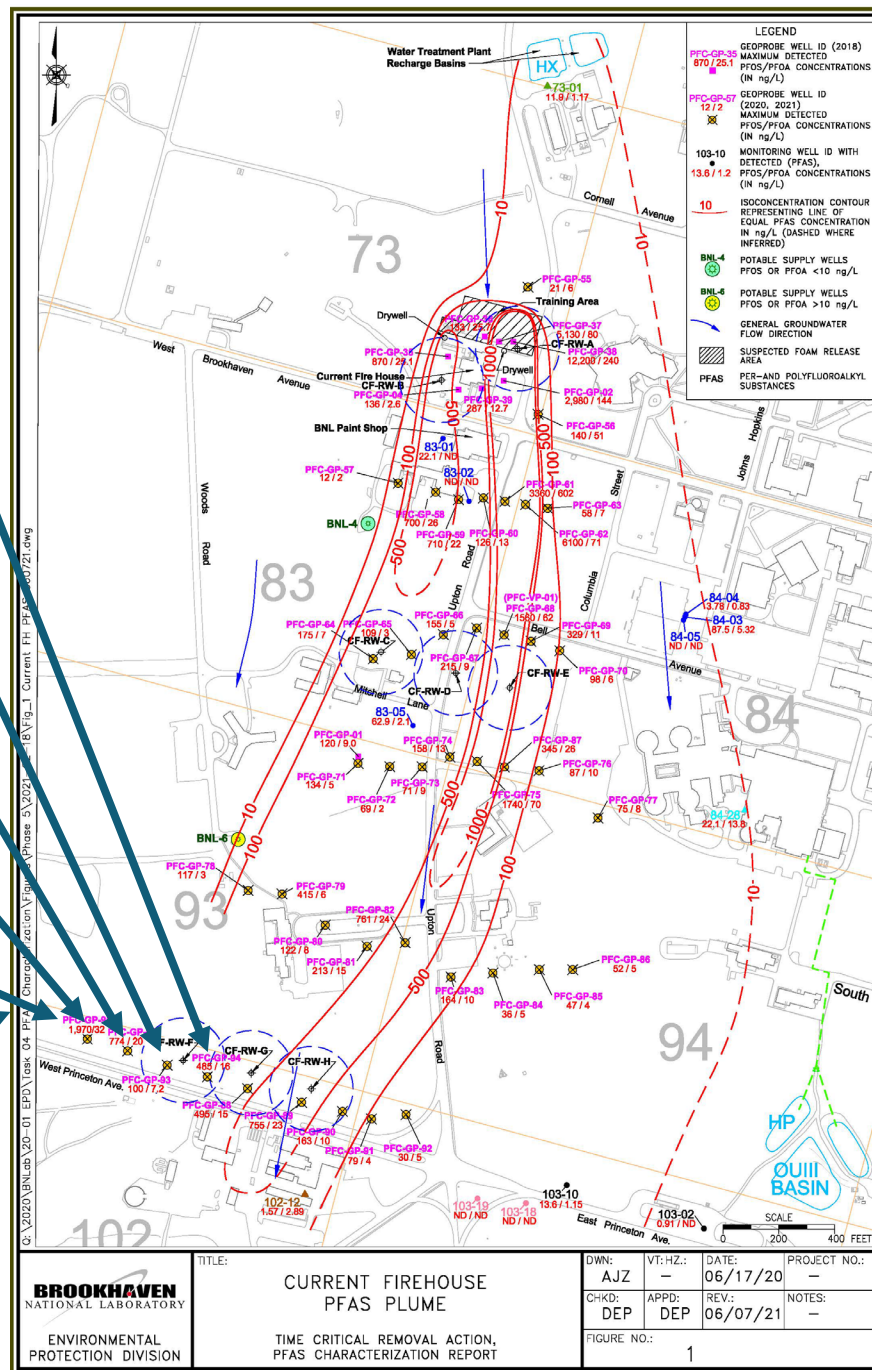
GP-132

PFOS: 2,330 ng/L

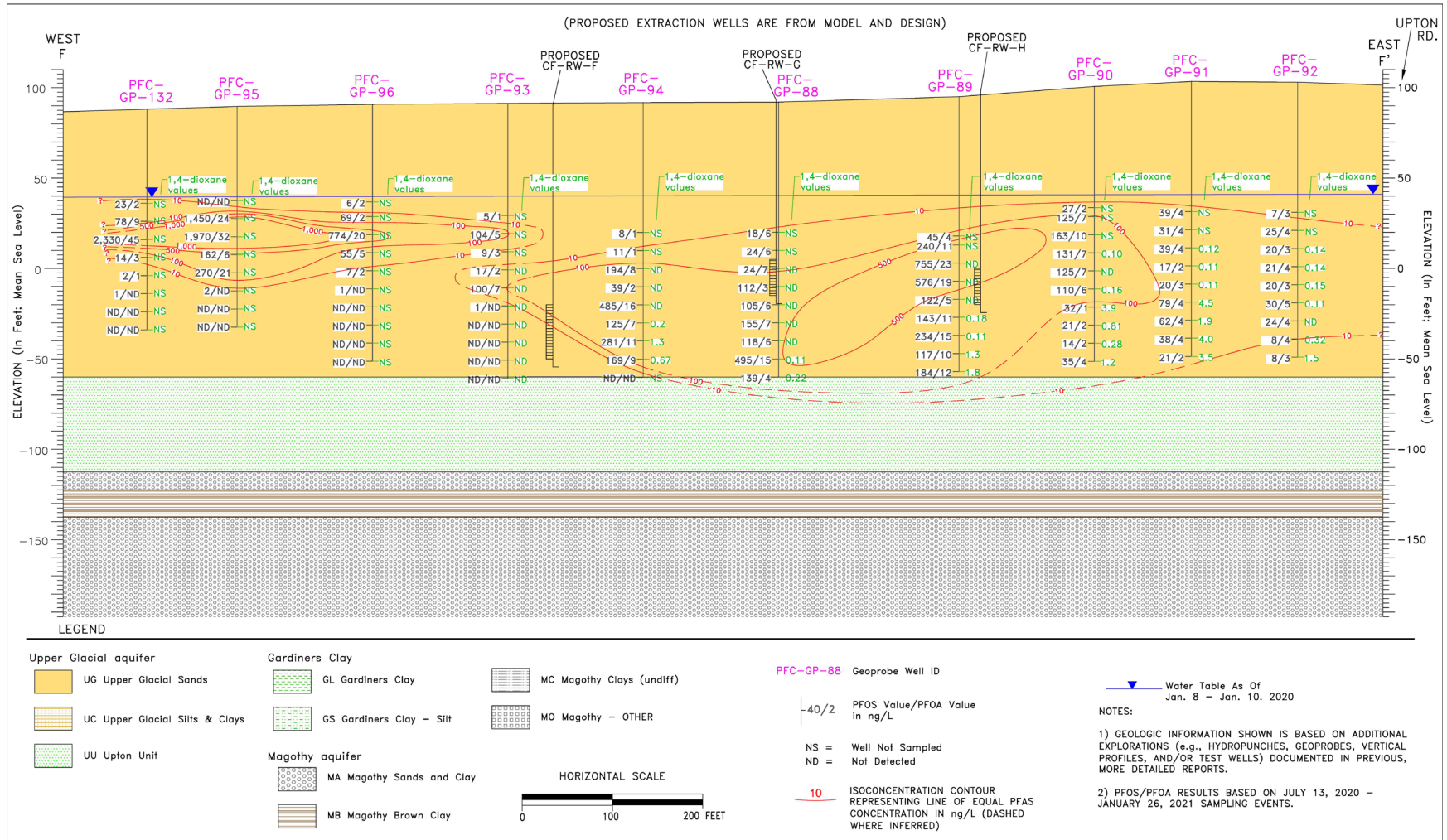
PFOA: 45 ng/L

GP-133

Waiting for results



# West-East Cross Section Along West Princeton Ave

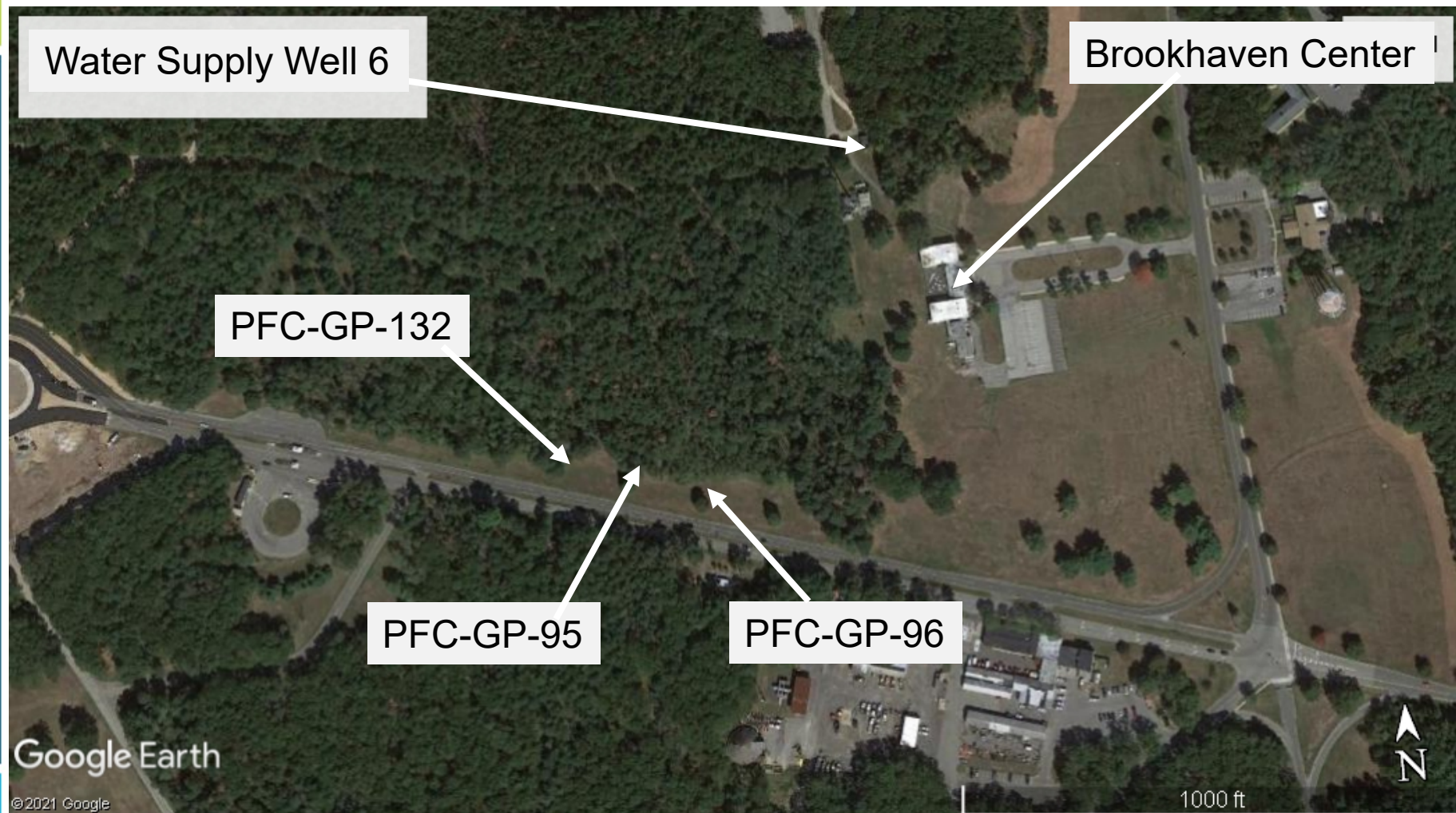




# Source?

Detections close to the water table suggest a nearby foam release area – not the Current Firehouse

# West Princeton Avenue Current Day





# West Princeton Avenue 1947

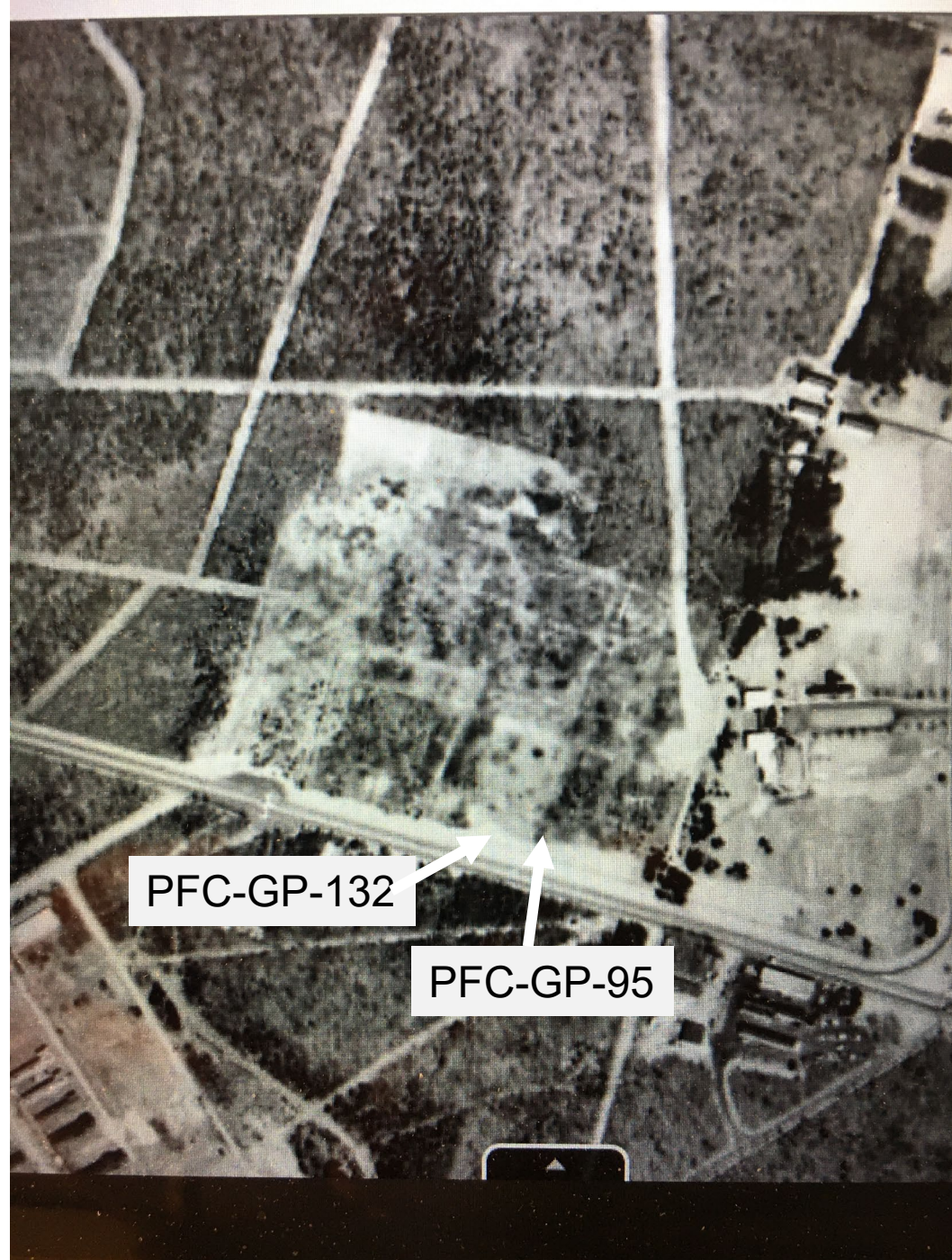
Former POW Camp





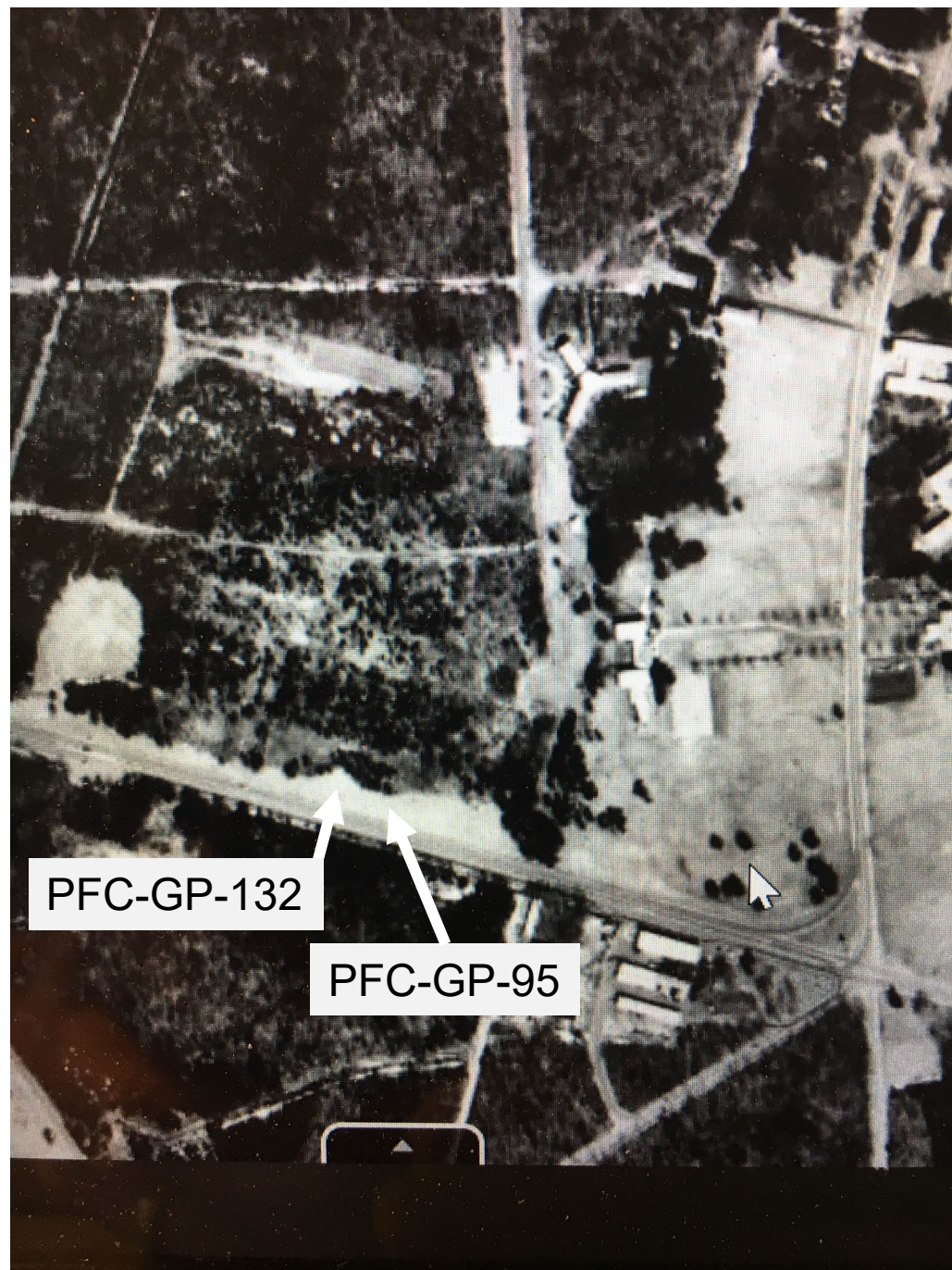
## West Princeton Avenue 1962

First Known Use of Foam at  
BNL was in 1966





# West Princeton Avenue 1978



# Follow-up Actions

- Contacted former BNL firefighter
  - He recalled that there may have been a foam training session or demonstration in the area west of Brookhaven Center – possibly in the 1970s?
- Continued characterization
  - Additional funding was provided by BNL – separate from the TCRA project
  - Additional temporary wells will be installed along West Princeton Avenue until the plume boundary is confirmed
  - Planning on installing additional upgradient and downgradient wells
  - Groundwater modeling
    - Particle tracking is being conducted to provide insight into possible source location and downgradient migration pathways



# Possible Additional Characterization Areas

